

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) ~~A In a consumer electronic device that is coupled to a plurality of consumer electronic devices via a high-speed data bus, a method of scheduling and executing service-based requests, said method comprising:~~

accessing a network service database containing a plurality of service offerings that aggregate capabilities of a plurality of devices coupled as a network;

receiving a service-based request from a user based on one or more of said service offerings, wherein said service-based request does not indicate a consumer electronic device of said plurality of consumer electronic devices for carrying out said service-based request, and wherein said service-based request comprises a request to record content;

determining one or more resources of said network for carrying out said service-based request from said network service database, wherein said resources include one or more source devices, one or more destination devices and one or more communication links;

translating said service-based request into one or more device-specific events for carrying out said service-based request based on said network service database;

constructing a service request list that is based on said device-specific events, service-based request, wherein said service request list stores a plurality of events to be executed

~~chronologically and sequentially, wherein said plurality of events are device specific, and~~  
~~wherein said plurality of events are necessary for carrying out said service-based request wherein~~  
said service request list is arranged as a hierarchical data structure that includes a top level and  
one or more lower levels, wherein said top level includes a handle logically associated with said  
service-based request, and descriptive information and timing information for carrying out said  
service-based request, and wherein a lower level includes one or more logical links between said  
resources, and one or more device-specific commands for carrying out the service-based request  
by said resources;

determining whether said service request list conflicts with another service request list;  
and

provided that said service request list does not conflict with said another service request  
list, storing said service request list and scheduling said service request list for executing said  
plurality of device-specific events chronologically and sequentially according to said service  
request list;

~~—determining a source consumer electronic device for playing said content and an~~  
~~intermediate consumer electronic device for recording said content; and~~

~~—determining an amount of recording medium of said intermediate consumer electronic~~  
~~device that is available for recording said content.~~

2. (Canceled).

3. (Currently Amended) A method as recited in Claim-~~2~~ 1 wherein said service request list further comprises information that describes routing information that allows content from said source devices ~~consumer electronic device~~ to be routed to said destination devices ~~consumer electronic device~~.

4. (Currently Amended) A method as recited in Claim 1 further comprising:  
determining availability of said source devices ~~consumer electronic device~~, said destination devices and said ~~intermediate consumer electronic device~~ communication links at a time said service-based request is to be rendered.

5. (Canceled).

6. (Currently Amended) A method as recited in Claim-~~4~~ 3 wherein said content comprises a broadcast program.

7. (Previously Presented) A method as recited in Claim 1 further comprising denying said service-based request provided said service-based request is in conflict with said another service-based request.

8. (Currently Amended) A computer readable medium containing therein computer readable codes for causing a computer system to perform a method ~~of scheduling and executing~~

~~service-based request, said method~~ of synchronizing different network activity over time  
comprising:

accessing a network service database containing a plurality of service offerings that  
aggregate capabilities of a plurality of devices;

presenting the plurality of service offerings to a user;

receiving a service-based request from a said user based on one or more of said service  
offerings, wherein said service-based request does not indicate a consumer electronic device for  
carrying out said service-based request, and wherein said service-based request comprises a  
request to record content;

determining one or more resources for carrying out said service-based request from said  
network service database;

translating said service-based request into one or more device-specific events based  
request based on said network service database;

constructing a service request list that is based on said device-specific events, service-  
based request, wherein said service request list stores a plurality of events to be executed  
chronologically and sequentially, wherein said plurality of events are device-specific, and  
wherein said plurality of events are necessary for carrying out said service-based request wherein  
said service request list is arranged as a hierarchical data structure that includes a top level and  
one or more lower levels, wherein said top level includes a handle logically associated with said  
service-based request and timing information for carrying out said service-based request, and  
wherein a lower level includes one or more logical links between said resources, and one or more

device-specific commands for carrying out said service-based request by said resources;

determining whether said service request list conflicts with another service request list;

and

provided that said service request list does not conflict with said another service request list, storing said service request list ~~and scheduling said service request list for executing said plurality of events chronologically and sequentially according to said service request list;~~  
~~—determining a source consumer electronic device for playing said content and an intermediate consumer electronic device for recording said content; and~~  
~~—determining an amount of recording medium of said intermediate consumer electronic device that is available for recording said content.~~

9. (Currently Amended) A computer readable medium as recited in Claim 8 wherein said service request list contains details of ~~said a~~ source consumer electronic device and of a destination consumer electronic device, said details comprising control information and timing information of said source consumer electronic device and said destination consumer electronic device.

10. (Currently Amended) A computer readable medium as recited in Claim 9 wherein said service request list further comprises information that describes routing information that allows content of said source consumer electronic device to be routed to said destination consumer electronic device.

11. (Currently Amended) A computer readable medium as recited in Claim ~~8~~ 10 further comprising:

determining availability of said source consumer electronic device and said destination consumer electronic device ~~and said intermediate consumer electronic device~~ at a time said service-based request is to be rendered.

12-13. (Canceled).

14. (Previously Presented) A computer readable medium as recited in Claim 8 further comprising denying said service-based request provided said service-based request is in conflict with said another service-based request.

15. (Currently Amended) A home server for coupling to a network of consumer electronic devices, said home server comprising:

logic for accessing a network service database containing a plurality of service offerings that aggregate capabilities of a plurality of devices;

logic for receiving a service-based request from a user application, that is non-device-specific, based on one or more of said service offerings, ~~wherein said service-based request does not indicate a particular one of the consumer electronic devices for carrying out said service-based request, and wherein said service-based request comprises a request to record content;~~

logic for determining one or more resources of said network for carrying out said service-based request from said network service database, wherein said resources include one or more source devices, one or more destination devices and one or more communication links;

logic for translating said service-based request into one or more device-specific events for carrying out said service-based request by said resources based on the network service database;

logic for constructing a service request list that is based on said device-specific events, service-based request, wherein each service request list stores a plurality of events to be executed chronologically and sequentially, wherein said plurality of events are device-specific, and wherein said plurality of events are necessary for carrying out said service-based request wherein said service request list is arranged as a hierarchical data structure that includes a top level and one or more lower levels, wherein said top level includes a handle logically associated with said service-based request, and descriptive information and timing information for carrying out said service-based request, and wherein a lower level includes one or more logical links between said resources, and one or more device-specific commands for carrying out the service-based request by said resources;

logic for determining whether said service request list conflicts with another service request list; and

logic for storing said service request list if said service request list does not conflict with said another service request list;

logic for scheduling said service request list events for execution;

logic for executing said plurality of events chronologically and sequentially according to

~~said service request list provided that said service request list does not conflict with said another service request list;~~

~~——— logic for determining a source consumer electronic device for playing said content and an intermediate consumer electronic device for recording said content; and~~

~~——— logic for determining an amount of recording medium of said intermediate consumer electronic device that is available for recording said content.~~

16. (Canceled).

17. (Currently Amended) A home server as recited in Claim ~~16~~ 15 wherein said service request list further comprises information that describes routing information that allows content from said source devices ~~consumer electronic device~~ to be routed to said destination devices ~~consumer electronic device~~ through said communication links.

18. (Currently Amended) A home server as recited in Claim 15 further comprising:  
logic for determining availability of said source devices ~~consumer electronic device~~, said destination devices and said communication links ~~intermediate consumer electronic device~~ at a time said service-based request is to be rendered.

19. (Canceled).



20. (Currently Amended) A home server as recited in Claim ~~15~~ 17 wherein said content comprises a broadcast program.

21. (Previously Presented) A home server as recited in Claim 15 further comprising logic for denying said service-based request provided said service-based request is in conflict with said another service-based request.

22. (New) A home server as recited in Claim 15 further comprising:  
logic for executing said device-specific commands chronologically and sequentially according to said timing information for each of said resources.

23. (New) A method as recited in Claim 1 further comprising:  
presenting said plurality of service offerings to a user application, wherein said service-based request is received in response to said presenting said plurality of service offerings.

24. (New) A computer readable medium as recited in Claim 8 wherein said service request list schedules said device specific-commands for executing chronologically and sequentially according to said service-based request.